

AKR1D1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16670c**Specification**

AKR1D1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P51857](#)**AKR1D1 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 6718

Other Names

3-oxo-5-beta-steroid 4-dehydrogenase, Aldo-keto reductase family 1 member D1, Delta(4)-3-ketosteroid 5-beta-reductase, Delta(4)-3-oxosteroid 5-beta-reductase, AKR1D1, SRD5B1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AKR1D1 Antibody (Center) Blocking Peptide - Protein Information

Name AKR1D1

Synonyms SRD5B1

Function

Catalyzes the stereospecific NADPH-dependent reduction of the C4-C5 double bond of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure to yield an A/B cis-ring junction. This cis-configuration is crucial for bile acid biosynthesis and plays important roles in steroid metabolism. Capable of reducing a broad range of delta-(4)-3-ketosteroids from C18 (such as, 17beta-hydroxyestr-4-en-3-one) to C27 (such as, 7alpha-hydroxycholest-4-en-3-one).

Cellular Location

Cytoplasm.

Tissue Location

Highly expressed in liver. Expressed in testis and weakly in colon.

AKR1D1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

AKR1D1 Antibody (Center) Blocking Peptide - Images

AKR1D1 Antibody (Center) Blocking Peptide - Background

The enzyme encoded by this gene is responsible for the catalysis of the 5-beta-reduction of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure. Deficiency of this enzyme may contribute to hepatic dysfunction. Three transcript variants encoding different isoforms have been found for this gene. Other variants may be present, but their full-length natures have not been determined yet.

AKR1D1 Antibody (Center) Blocking Peptide - References

Steen, N.E., et al. Prog. Neuropsychopharmacol. Biol. Psychiatry (2010) In press :Drury, J.E., et al. J. Biol. Chem. 285(32):24529-24537(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Ueki, I., et al. J. Gastroenterol. Hepatol. 24(5):776-785(2009)Panagopoulos, I., et al. Oncol. Rep. 21(3):615-624(2009)